

Lecture PR1

Workshop 1 – Feedback to Plenary

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XIV SAFEX CONGRESS

RISK MANAGEMENT WORKSHOP

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Presentations

- SHE Management Systems
- Incident reports
- Exercise

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SHE Management Systems

- Managing SHE Risks in South African Armaments Industry. [Petrus Cloete, Denel]
- Introducing and Planning OHSAS 18001 Management System. [Martin Arkins, UIE]
- Integration of ISO 9000, ISO 14000 and OHSAS 18000 promotes:
 - Risk management
 - Simplification
 - Reduced paperwork
 - Cost effectiveness
- Top management driven

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Incident reports

- Controlled detonation of NG during site remediation [Piet Halliday, AEL]
- Explosion of UAN pump [Piet Halliday, AEL]
- Propellant detonation in a Shotshell loading plant [Keith Grieve, Denel]

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Controlled NG Detonation



- Damaged plant 'mothballed'
- Well documented
- Risk Assessment applied in subsequent remediation
- Controlled detonation best way to deal with NG contamination
- When in doubt assume presence of NG

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UAN Pump Explosion



- Non explosive application
- Plant taken over 6 months earlier
- Formal Risk Assessments are required whenever:
 - Acquiring new plant
 - Disposing of plant

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Shotshell Loading Detonation



- Cause of ignition unknown
- Propagation mechanism explained
- Hopper design
- 'Type testing' applied routinely
- Beware of predicting behaviour based on sample

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Exercise

Location:
 Date:
 Employee Name:
 Supervisor Name:
 1. Write down the task:
 2. List the main hazards:
 3. Complete the HAT in the matrix below:

PROBABILITY	Will happen	5	B	B	A	A	A
	Almost Certain	4	C	B	B	A	A
	Could happen	3	C	C	B	B	A
	Unlikely	2	C	C	C	B	B
	Extremely Unlikely	1	C	C	C	C	B
A	A-CLASS HAZARD STOP! Inform Supervisor. Use formal job safety analysis before continuing.	1	2	3	4	5	
B	B-CLASS HAZARD STOP! Inform Supervisor. Use procedure or permit.	Minor	Medium	Severe	Major	Catastrophic	
C	C-CLASS HAZARD Continue with task after completion of task #.	SEVERITY					

4. List potential controls:
 5. Tear off this sheet and pass to Supervisor.

- Applying the 'Take 5' personnel Risk Assessment tool. [Tov Haugen, Dyno Nobel]
- Complements Zurich Hazard Analysis approach.

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